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Effect of acyl chain composition on salt-induced lamellar to invehexagonal phase transitions in cardiolipin.

Sankaram MB, Powell GL, Marsh D.

Max-Planck-Institut fur biophysikalische Chemie, Abteilung Spektroskopie, Gottingen, F.R.G.

Salt-induced fluid lamellar (L alpha) to inverted hexagonal (HII) phase transi have been studied in diphosphatidylglycerols (cardiolipins) with different acy compositions, using 31P nuclear magnetic resonance (NMR) spectroscopy. Cardiolipins with four myristoyl chains, tetramyristoyl cardiolipin (TMCL), with four oleoyl chains, tetraoleoyl cardiolipin (TOCL), were synthesized chemically. TMCL was found to undergo a thermotropic lamellar gel to lame liquid-crystalline phase transition at 33-35 degrees C. This lipid exhibited an symmetric 31P-NMR spectrum corresponding to a lamellar phase at all NaCl concentrations between 0 and 6 M. In the case of TOCL, formation of an HII was induced by salt concentrations of 3.5 M NaCl or greater. These observate taken together with earlier findings that bovine heart cardiolipin aqueous distandopt an HII phase at salt concentrations of 1.5 M NaCl or greater, indicate the increasing unsaturation and length of the acyl chains favour formation of the phase in diphosphatidylglycerols.

PMID: 2713413 [PubMed - indexed for MEDLINE]

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